

Claims

1. A guide apparatus having a track rail, on which rolling-element raceway surfaces are formed along a longitudinal direction thereof, and a moving block attached to the track rail by way of a plurality of rolling elements in a relatively-movable manner, the moving block having load rolling-element raceway surfaces forming load rolling-element raceway passages in conjunction with the rolling-element raceway surfaces, a moving block main body in which rolling-element clearance holes corresponding to the load rolling-element raceway surfaces are formed, and side covers attached to each end of the moving block main body with respect to the direction of relative movement, wherein

an end-face dustproof brush, which has a brush member whose tip end contacts a surface of the track rail and which eliminates extraneous matters adhering to the surface of the track rail by means of the brush member, is attached to outside of each of the side covers with respect to the direction of relative movement.

2. The guide apparatus according to claim 1, wherein the end-face dustproof brush has a casing and the plurality of brush members, and the plurality of brush members are provided in the casing while being separated from each other at a given interval with reference to the direction of relative movement.

3. The guide apparatus according to claim 2, wherein, of the plurality of brush members of the end-face dustproof brush, the brush member located outside with reference to the direction of relative movement has a large wire diameter; brush
5 wires having high hardness are arranged sparsely; the brush members provided at inner positions are finer than the outer brush wires in terms of a wire diameter; and brush wires having low hardness are arranged densely.

4. The guide apparatus according to any one of claims
10 1 through 3, wherein each of the brush members of the end-face dustproof brush conforms to a cross-sectional profile of the track rail, and each brush member is formed from a plurality of split brush bodies so that tip ends of the brush bodies can contact the surface of the track rail without fail.

15 5. The guide apparatus according to any one of claims 1 through 4, wherein an accessory member, such as another seal member, is provided between the end-face dustproof brush and the side cover.

6. The guide apparatus according to any one of claims
20 1 through 5, wherein the moving block main body is provided with a side dustproof brush whose tip ends contact a longitudinal side surface of the track rail and which closes clearance between the side surface of the track rail and a longitudinal inner side surface of the moving block.